

The following screen is visible following the XRGSCOPE path:

OPTIMUS (XRG90) at RAD - R/F generators or **OPTIMUS C** at Duo Diagnost systems

>> Faultfind >> Logging Table >> X-Ray Log >> Dose Rate Control Logging >> AEC

>> **AEC Calculation**

From release 3.5 RAD - R/F or release 1.2 Optimus C onwards there are only 4 dose correction steps at 12% possible (plus or minus).

The density voltage U_off determining the exposure termination has been programmed in such way that is at 1.00 Volt if the displayed density correction value is at zero.

The density correction value is displayed at the control panel, desk or Cockpit. An additional value "dose nominal [OD] =" (1.000 indicated in the 1st screen next page) represents the basic optical density according to the customers taste, e.g. 1.5.

The calculated U_off exposure termination value as well as the corrected optical density depending on the correction step is displayed accordingly.

Use a multiplication factor of 1.125 for up- and down calculation if the density steps are at 12%.

MIN4CORR.TDL	
U nominal [kV]:	[70.00]
I nominal [mA]:	[357.1]
t backup [ms]:	[3993.000]
C eff ht [nF]:	[4.55]
selected sensor :	Amplimat
dose measurement input:	EZX21
film screen comb.:	[1]
dose nominal [OD]:	[0.630]
dose calculated:	[258]
kV factor:	[1.00]
U off [V]:	[0.630]
t corrected [ms]:	[3992.778]
t lead AEC [ms]:	[0.322]
< OK >	

MIN3CORR.TDL	
U nominal [kV]:	[70.00]
I nominal [mA]:	[357.1]
t backup [ms]:	[3993.000]
C eff ht [nF]:	[4.55]
selected sensor :	Amplimat
dose measurement input:	EZX21
film screen comb.:	[1]
dose nominal [OD]:	[0.710]
dose calculated:	[291]
kV factor:	[1.00]
U off [V]:	[0.710]
t corrected [ms]:	[3992.778]
t lead AEC [ms]:	[0.322]
< OK >	

MIN2CORR.TDL	
U nominal [kV]:	[70.00]
I nominal [mA]:	[357.1]
t backup [ms]:	[3993.000]
C eff ht [nF]:	[4.55]
selected sensor :	Amplimat
dose measurement input:	EZX21
film screen comb.:	[1]
dose nominal [OD]:	[0.800]
dose calculated:	[328]
kV factor:	[1.00]
U off [V]:	[0.800]
t corrected [ms]:	[3992.778]
t lead AEC [ms]:	[0.322]
< OK >	

MIN1CORR.TDL	
U nominal [kV]:	[70.00]
I nominal [mA]:	[357.1]
t backup [ms]:	[3993.000]
C eff ht [nF]:	[4.55]
selected sensor :	Amplimat
dose measurement input:	EZX21
film screen comb.:	[1]
dose nominal [OD]:	[0.900]
dose calculated:	[369]
kV factor:	[1.00]
U off [V]:	[0.900]
t corrected [ms]:	[3992.778]
t lead AEC [ms]:	[0.322]
< OK >	

ZEROCORR.TDL		
U nominal [kV]:		[70.00]
I nominal [mA]:		[357.1]
t backup [ms]:		[3993.000]
C eff ht [nF]:		[4.55]
selected sensor :	Amplimat	↓
dose measurement input:	EZX21	↓
film screen comb.:		[1]
dose nominal [OD]:		[1.000]
dose calculated:		[410]
kV factor:		[1.00]
U off [U]:		[1.000]
t corrected [ms]:		[3992.778]
t lead AEC [ms]:		[0.322]
< OK >		

PLU1CORR.TDL		
U nominal [kV]:		[70.00]
I nominal [mA]:		[357.1]
t backup [ms]:		[3993.000]
C eff ht [nF]:		[4.55]
selected sensor :	Amplimat	↓
dose measurement input:	EZX21	↓
film screen comb.:		[1]
dose nominal [OD]:		[1.100]
dose calculated:		[450]
kV factor:		[1.00]
U off [U]:		[1.100]
t corrected [ms]:		[3992.778]
t lead AEC [ms]:		[0.322]
< OK >		

PLU2CORR.TDL		
U nominal [kV]:		[70.00]
I nominal [mA]:		[357.1]
t backup [ms]:		[3993.000]
C eff ht [nF]:		[4.55]
selected sensor :	Amplimat	↓
dose measurement input:	EZX21	↓
film screen comb.:		[1]
dose nominal [OD]:		[1.250]
dose calculated:		[512]
kV factor:		[1.00]
U off [U]:		[1.250]
t corrected [ms]:		[3992.778]
t lead AEC [ms]:		[0.322]
< OK >		

PLU3CORR.TDL		
U nominal [kV]:		[70.00]
I nominal [mA]:		[357.1]
t backup [ms]:		[3993.000]
C eff ht [nF]:		[4.55]
selected sensor :	Amplimat	↓
dose measurement input:	EZX21	↓
film screen comb.:		[1]
dose nominal [OD]:		[1.400]
dose calculated:		[573]
kV factor:		[1.00]
U off [U]:		[1.400]
t corrected [ms]:		[3992.778]
t lead AEC [ms]:		[0.322]
< OK >		

PLU4CORR.TDL		
U nominal [kV]:		[70.00]
I nominal [mA]:		[357.1]
t backup [ms]:		[3993.000]
C eff ht [nF]:		[4.55]
selected sensor :	Amplimat	↓
dose measurement input:	EZX21	↓
film screen comb.:		[1]
dose nominal [OD]:		[1.600]
dose calculated:		[655]
kV factor:		[1.00]
U off [U]:		[1.600]
t corrected [ms]:		[3992.778]
t lead AEC [ms]:		[0.322]
< OK >		